

## **JAMES J. SHENG**

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### **WORK EXPERIENCE**

**2011 – Present**

**Associate Professor (-2017)**

**Professor (2017-present)**

Texas Tech University

Lubbock, TX 79409, USA

- Research on enhanced oil recovery (EOR), CCUS and geo-energies.
- Responsible for the undergraduate core laboratory.
- Teach reservoir engineering courses.
- Taught courses and consulted worldwide.
- Graduated 1.5 PhD per year, or committee Chairs for 21 PhDs (job positions after graduation: 7 faculty members, 1 in ExxonMobil, 2 in Chevron), 7 Master students with master's theses and 26 Master students with Master's reports by December 2024.
- External examiners for PhD candidate dissertations and for faculty tenure promotion for international universities.
- Evaluation of research proposals for domestic and international institutes
- In TTU, authored and co-authored ~200 journal papers and 100+ conference papers, gave 10+ invited presentations, held 6 US patents, published 2 books, interviewed by JPT technical editors twice, two papers published by JPT, and two papers published by American Oil & Gas Reporter, and one paper published by a professional journal, invited for presentation by SPE, AAPG and universities home and abroad, by December 2024.

**2006 – 2010**

**Sr. Research Engineer**

**Managed research projects**

TOTAL E&P USA

Houston TX 77002, USA

- Conducted chemical EOR research.
- Supervised summer interns to conduct research.
- Developed chemical EOR expertise.
- Total technology representative in US (universities, DOE, tech services, projects with millions of dollars).

**2003 – 2006**

**Scientist, Team Leader**

Baker Hughes, Inc.

2001 Rankin Road, Houston, TX 77073, USA

- Developed formation testing interpretation techniques.
- Taught formation testing and sampling courses world-wide.
- Supervised summer interns to conduct research.
- Supported world-wide operations, data analysis and tool development.

**1999 – 2003**

Shell Group

**Sr. Reservoir Engineer**

PDO Oman & Shell Malaysia

- Was the team focal point for production forecast (800 wells).
- Planned field development programs.
- Was a focal point for MDT, RCI, PVT sampling and SCAL work.
- Revised FDP using a full field model built from scratch.
- Was a coordinator for external polymer EOR and other studies.
- Provided RE support for near field exploration and water disposal.
- Designed and analyzed 22 gas well tests.
- Studied oil rim development opportunities.
- Coordinated annual review of petroleum resources.

**1997 – 1999**

**Sr. Reservoir Engineer**

Kuwait Oil Company  
Ahmadi, Kuwait

- Participated in field development studies and simulation studies.
- Designed and analyzed horizontal well pressure transient tests.
- Trained students and junior engineers.
- Evaluated horizontal well performance.

**1991 – 1996**

**Graduate Student**

University of Alberta  
Edmonton, Canada

- Developed a non-equilibrium simulation model.
- Developed a methodology to describe bubble evolution.
- Studied the stability of gas-oil dispersion experimentally.
- Developed a 1D numerical simulator for thermal recovery.
- Simulated and studied thermal well tests.
- Worked on foam-flooding recovery.

**1983 – 1990**

**Reservoir Engineer**

Research Institute of Petroleum Exploration and Development  
Beijing, China

- Participated in field development plan and studies.
- Participated in advising the government on production strategies.
- Assisted senior engineers to carry out consultations.
- Was trained for well-site operations.

**EDUCATION**

- Ph.D. (1996) and M.Sc. (1993) from U. of Alberta, B.Sc. (1983) from China University of Petroleum, China, all in Petroleum Engineering

**AWARDS AND HONORS**

- Received the US Fulbright Scholar grant to Canada in 2021.

- Received the award for the Faculty Excellence in Research, Scholarship, and Creative Activity, Texas Tech University in 2018.
- Became SPE Distinguished Member, Sept. 25, 2018.
- Received Whitacre Engineering Research Award, Excellence in Research, Texas Tech University in 2015.
- Received the SPE Regional Technical Award (Southwestern US region) in 2013, 2015.
- Selected by students as a Most Influential Faculty Member in 2015, 2017.
- Received the Fulbright Specialist Grant administered by FSB, UD ECA and CIES and to help PetroVietnam University to establish their petroleum program in 2013.
- A member of the SPE “A Peer Apart” group whose member each reviewed more than 100 SPE papers (2009).
- Received the Eminent Reviewer Award from *Journal of Petroleum Science and Engineering* (2008).
- Received the Outstanding Associate Editor Award, *SPEREE*, 2008.
- Received the Outstanding Technical Editor Award, *SPEREE*, 2005.
- Received the Best Paper Award published in *JCPT*, Canada (1997).
- Received the Petroleum Society Fellowship Award, Petroleum Society of CIM, Canada (1995).
- Received the Norcen Energy Resources Scholarship in Petroleum Engineering, University of Alberta, Canada (1992).
- Received the Student Awards of Excellent Achievements, University of Petroleum (Huadong), China (1980, 1982).

## **PUBLICATION**

- Ranked 13150<sup>th</sup> (Career) and 2727<sup>th</sup> (in Year 2023) (probably the topmost rank among the global petroleum professionals) in Stanford University’s 100,000 most-cited researchers in the world (top 2% of global researchers) in 2024.
- Google citation: total 15149, h-index 59, i10-index 214; Since 2020, 9615.
- Authored two EOR books, edited one EOR book.
- Published total 200+ journal papers and 11 book chapters and presented about 110+ papers.
- 10 US patents.

## **SERVICES**

- Served the SPE North America Regional Director (Oct 2021-Oct 2024) Nomination Committee, 2021.
- Served the technical committee of the SPE Liquid Rich Basins Conference, Odessa, Texas, USA, November 7-10, 2019.
- Served as a PhD or MSc external examiner for foreign universities (Canada, China, Kuwait, Saudi Arabia, UAE, US) (2018-present)
- Reviewed research proposals submitted to American Chemical Society Petroleum Research Funds (ACSPRF) funds (2013, 2015, 2016) and foreign institutes (2016-present).
- Served the faculty tenure and promotion committee for the petroleum department and College of Engineering (2014-present).
- Chaired the scholarship committee for the petroleum department of TTU (2014-present)
- Served in the Organizing Committee of the World Congress on Petrochemistry and Chemical Engineering, OMICS Group, November 18-20, 2013, San Antonio, USA.
- Reviewed book proposals for Elsevier Publisher (2008-present).

- Served on the proposal review committee and the technical steering committee for RPSEA (Research Partnership to Secure Energy for America) EOR/IOR Consortium (2008) and the DeepStar Consortium (2006 – 2010).
- Associate Editor for the Journal of Petroleum Science and Engineering (JPSE), 2008-2011.
- Associate Editor for SPEREE, 2005 – 2009.
- Appointed technical Editors for JCPT (1996-2000), SPEREE (2005 – 2010), JPSE (2008 – 2011).
- Invited technical editors for SPWLA, SPE Journals, Energy & Fuel, Fuel, JPSE(GSE), JNGSE, RMRE, etc.
- Served the SPE Kuwait section as the secretary (1998-1999).

## **FUNDING**

- US Fulbright program for research, \$ 50,000, Jan. – May 2021.
- PI for a US DOE project on maximizing liquid oil recovery from shale oil and gas condensate reservoirs, \$1.2 million DOE contribution, or \$6.2 million including industry in-kind contribution, 2014 –2017.
- PI for Shale Oil Research Consortium, \$30k funded in Jan. 2014 – Aug. 2016.
- PI for Chemical EOR Database Consortium, \$300k funded in Jan. 2012 – Dec. 2015.
- US Fulbright Specialist program, travel fund, \$8,016, July 7, 2013 – Aug. 2013.
- Co-PI for a Halliburton research project: Development of a Novel Method to Produce Extra Viscous Heavy Oil (Bitumen) in Shallow and Thin Reservoirs, \$94,723, PI: Dr. Soliman, July – December 2013.